

FY05 Year-End Annual Report
for the
MassDEP/US EPA Region I
Environmental Performance Partnership Agreement: 2005-2006

Massachusetts Department of Environmental Protection
1 Winter Street
Boston Massachusetts 02108

April 14, 2006

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	Milestones
Emission Reduction <ul style="list-style-type: none"> Ozone Fine particulates, air toxics CO2 Other criteria pollutants 	<ul style="list-style-type: none"> Conduct compliance monitoring activities at power plants Employ risk-based targeting of inspections and enforcement 	<p>Compliance and Enforcement</p> <ul style="list-style-type: none"> Oversee CEM and stack test reporting for NOx Allowance Trading Program (310 CMR 7.27 and 7.28) (Part 75 sources) Conduct inspections, review compliance reports, monitoring reports and stack tests and take appropriate follow up enforcement action at air operating permit and other stationary air sources Support Regional Implementation of Air Quality National Compliance Monitoring Strategy Including Air Compliance Evaluations: negotiate with EPA on requirements, facilitate statewide consistency by provide guidance/training to regions, track accomplishments <i>Ongoing</i> Facilitate/monitor State-Wide High Priority Violator Identification (Air pollution sources) and Significant Non Compliance (hazardous waste sources) per EPA grant commitment <i>Ongoing</i> Routine Regulatory Reporting Implementation for Stage II Facilities (Universe Identification, report receipt, systems management, data entry, report review and enforcement) <i>Ongoing</i> <p>Data Systems Development</p> <ul style="list-style-type: none"> CDX - AQ information management project, development of electronic Source Registration forms, and development of new Stationary Source Emissions Inventory data <p>Permitting</p> <ul style="list-style-type: none"> Support Implementation of Nitrogen Oxides Allowance and Trading Program (310 CMR 7.27 and 7.28) 	<ul style="list-style-type: none"> Oversee approximately 120 Stack tests <i>DID</i> Conduct approximately 60 inspections of air operating permit sources and approximately inspections of RES sources and several hundred inspections of small air <i>sources (Did 67 air operating permit inspections issued 8 High Level (HLE) and 30 Lower Level (LLE) enforcement actions, 73 RESM80 inspections issued 6 HLE and 39 LLE, 230 minor air sources and 140 air sources below the “reporting threshold” issued 53 HLE and 1 LLE actions NOTE: air enforcement is often based on review of reported information rather than in addition to inspection)</i> Review over 1500 compliance and stack test reports from air operating permit and RES sources <i>Done</i> Complete the CDX – AQ and new stationary source emissions inventory system by Winter 05 <i>CDX node operational January 06 still resolving some bugs. Stationary Source Inventory System operational February 06</i> Issue the approximately 20 “proposed” and propose and, to the extent feasible, issue, the “draft” active Air Operating Permits that remain to be issued. (Manage the 16 Air Operating Permit renewals that come due this year <i>(Took action on 20 Air Operating Permits and Renewals, 3 are on hold)</i>) Issue approximately 150 other air quality plan approvals <i>(Took action on 205)</i> Complete final engines and turbines rules by

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		<p>and 7.28): overseeing stack testing, reviewing RATA data certifying accuracy of emissions data, allocating allowances</p> <ul style="list-style-type: none"> • Implement NOx public benefit set aside requirements by reviewing applications from energy facilities to ensure that they have earned the allowances for which they are applying • Issue and renew air operating permits and other plan approvals per DEP and EPA regulations • Air quality modeling for the Facility Based Impact Risk Evaluation at new solid waste management facilities <i>Ongoing as needed</i> <p style="text-align: center;">Regulation and Policy Development</p> <ul style="list-style-type: none"> • Support Department of Energy Resources Biomass as a fuel source policy development (Commissioner's Priority) • Promulgate Opacity Regulations and Limited Plan Approval regulations • Beyond ERP <ul style="list-style-type: none"> ○ Engines and Turbines Project: promulgate regulations and develop presence strategy ○ Biotech Project: Air Quality regulations and permit standards ○ Stage II Project: implementation -- conduct new inspections, outreach, enforcement strategy to implement new outreach and oversight strategy and coordinate implementation with regional offices <p>Reporting</p> <ul style="list-style-type: none"> • Manage routine regulatory reporting requirements and associated data systems development & 	<p>Winter 04-05 <i>Regulations promulgated September 05</i></p> <ul style="list-style-type: none"> • Complete opacity regulations by Fall 04 <i>Public hearing held October 2005 expect promulgation Spring 06</i>

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		management activities for air (Stationary Source Emissions Inventory System SEISS, and submit compliance and enforcement data to EPA) <i>Ongoing</i>	
Ozone and Particulate Matter Attainment Planning <ul style="list-style-type: none"> Performance standards for fuels, consumer products, stationary sources, vehicles Permits for stationary sources Inspections, emissions testing, audits, and report review for stationary and mobile sources Follow-up enforcement Transportation planning to minimize vehicle miles traveled 	<ul style="list-style-type: none"> Work with MA DEP on development of 2002 ozone inventories, modeling and control measures which will make up the state's ozone attainment demonstration, which will be due in 2007 Work with MA DEP to develop PM2.5 emission inventories Conduct outreach on the PM2.5 standard and communicate EPA's PM2.5 implementation rule Work on local particulate matter programs (diesel retrofits, etc.) Continue to work with MA DEP to assure that PM2.5 data is complete and entered into AQS Complete the PM2.5 nonattainment designation by December 2004 Support implementation of new NOx and SO2 emission standards for power plants 	Environmental Quality Assessment <ul style="list-style-type: none"> Use results of Mobile 6 Model to develop mobile source budget in conformance with the SIP Run Mobile 6 model to develop mobile source inventory for the State Implementation Plan Maintain MOBILE6 documentation and upgrades Program Development and Evaluation <ul style="list-style-type: none"> Develop implementation policies and procedures for implementing the Ozone Transport Commission's multi-pollutant strategy within the region, resulting in further emission reductions from the regional NOx allowance sources; assess impact on MA sources. Coordinate with and provide input to Department of Energy Resources and NE-ISO on energy policy for CO2 and NOX controls <i>Ongoing</i> Prepare and submit to EPA a Mid Course Review for Eastern Massachusetts 1-hour Ozone implementation plan per EPA grant commitment Perform ozone screening modeling to evaluate alternative state and/or regional emission reduction strategies to assess likelihood of attaining the 8 hour ozone standard, consistent regional work plan Support the Ozone Transport Commission Modeling Committee in developing SIP quality modeling program Revise the MA 2002 NOx, VOC, and PM2.5 	<ul style="list-style-type: none"> Run Mobile 6 during 2004 – 2005 <i>Model run</i> Develop Ozone Transport Commission multi-pollution strategy during 2004 – 2005 <i>Ongoing</i> Complete the Eastern MA 1-hour ozone mid-course review <i>was submitted 12/23/04 and approved by EPA 9/05.</i> Perform Ozone screening modeling during 2004 – 2006 <i>Ongoing</i> Support the Ozone Transport Committee's development of a SIP quality modeling program during 2004 – 2005 <i>Ongoing</i> Revise the 2002 emissions inventory during 2004-2005 <i>Draft to EPA summer 05</i> Develop MA specific growth factors for NOx, VOC and PM 2.5 inventories by the end of 2005 <i>Done</i> Develop Architectural Coating, and Consumer Product Regulations in 2005 <i>postponed per EPA to FFY06</i> Develop Gas Can Regulations in 2005 continuing upon California finalizing revisions to its container specifications <i>postponed per OTC FFY06</i>

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		<p>emissions inventories (Base year for SIP purposes) in response to EPA QA; review and update, as necessary, the MA 2002 NO_x, VOC and PM_{2.5} modeling emissions inventory; document inventory preparation for submission to EPA</p> <ul style="list-style-type: none"> • Develop MA-specific growth factors for the NO_x, VOC, and PM_{2.5} emissions inventory, consistent with regional efforts and for use in 8-hour ozone, Regional Haze, and PM_{2.5} SIP modeling • Serve as State's Designated Air Pollution Control Official on the Ozone Transport Commission (OTC) <i>Ongoing</i> • Coordinate quarterly MA State Implementation Plan (SIP) Steering Committee Meetings) <i>Ongoing</i> • Develop comments on EPA's proposed rules and guidance affecting ozone attainment and assure that MA positions are appropriately represented in comments prepared by other regional and national organization in which MA is a member) <i>Ongoing</i> • Develop position and provide comments on EPA's PM_{2.5} standards revision <i>Submit through NESCAUM in April 2006.</i> • Review EPA rules regarding PM_{2.5} attainment in order to ensure that MA interests are adequately protected. <i>Done</i> • Develop architectural coatings, consumer product and gas container rules for 8-hr ozone SIP, consistent with MA commitment to Ozone Transport Commission due July 05 <i>Postponed pending OTC review.</i> • Participate in the Ozone Transport Commission's Best Available Control Technology/Lowest Achievable Emission Rate policy development 	

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		initiative (per Commissioner priority) <i>Ongoing</i> <ul style="list-style-type: none"> Represent the MA Air Program on the Northeast States for Coordinated Air Use Management (NESCAUM) and its "sister" research organization, NESCCAF (Northeast Center for Clean Air Futures) <i>Ongoing</i> 	
	Haze <ul style="list-style-type: none"> Participate in the regional planning organization MANE VU charged with the development of the regional haze strategy 	Haze Environmental Quality Assessment <ul style="list-style-type: none"> QA/QC the MA portion of the 2002 regional haze inventory for MANE-VU (a regional air planning authority mandated by the Clean Air Act) Support the development of a regional haze air quality model by MANE-VU Program Development and Evaluation <ul style="list-style-type: none"> Serve as State's Designated Air Pollution Control Official to the Mid-Atlantic-Northeast Visibility Union (MANE-VU) Ambient Air Quality: Make real time and long term air quality data available to the public <i>Ongoing</i> 	<ul style="list-style-type: none"> Work with MANE-VU to develop the haze inventory and haze model during 2004 – 2005 <i>Drafts done in 05, undergoing revisions</i> QA/QC MA portion of the 2002 haze inventory in 2004 <i>Done</i>
	Forecasting <ul style="list-style-type: none"> Continue to issue press releases and smog alerts warning of elevated ozone levels and elevated levels of fine particles when appropriate (the smog alert service currently notifies 2,000 interested organizations and individuals of predicted poor air quality via fax or e-mail) 	Forecasting Environmental Quality Assessment <ul style="list-style-type: none"> Calculate and post on the MA website the daily Air Quality Index for ozone (seasonal May-Sept.) and for PM 2.5 (annual) <i>Ongoing</i> Public Information Communicate daily air quality forecast to public through media and website <i>Ongoing</i> 	

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	<p>poor air quality via fax or e-mail)</p> <ul style="list-style-type: none"> Continue to assist the NE states with their ozone and fine particle forecasting efforts and to produce the daily ozone forecast map for the NESCAUM states. Outreach to the media will be done to promote the use of air quality forecasts in newspapers and on television. Conduct a workshop on air quality outreach and forecasting for the New England states 	<ul style="list-style-type: none"> Provide EPA air quality data and daily pollutant predictions for the Air NOW website and maps of ambient ozone and PM2.5 air concentrations Prepare and publish the Annual Air Quality Report and post it on the DEP website <i>Ongoing</i> 	
Inspection & Maintenance Program	<ul style="list-style-type: none"> Continue to work with the DEP assist with implementation of the I/M program 	<p>Compliance and Enforcement</p> <ul style="list-style-type: none"> Oversee equipment audits by contractors, conduct equipment audits auditing each station at least once during the year Manage emissions waiver program: work jointly with the RMV to issue passing waivers to motorists who have reached the expense threshold Oversee the I & M Network Contractor Support Registry of Motor Vehicles field staff who enforce the testing requirements <i>Ongoing</i> <p>Permitting</p> <ul style="list-style-type: none"> Oversee initial certification and biennial recertification of inspectors by contractor <p>Grants/Loans/Technical Assistance/Outreach</p> <ul style="list-style-type: none"> Respond to and resolve consumer and station complaints and questions <i>Ongoing</i> 	<ul style="list-style-type: none"> Oversee 1,600 equipment audits by contractor <i>Done</i> Conduct 150 equipment audits <i>Done</i> Oversee 1,700 covert vehicle audits by contractor <i>Done</i> Oversee 750 covert visual audit by contractor <i>Done</i> Assist the Registry with the issuance of waivers to qualifying vehicles and denial of waivers to non-qualifying vehicles (estimate 350 waivers may be needed) <i>Done</i> Oversee initial certification and biennial recertification of inspectors by contractor (estimate 1,500 inspectors newly certified annually, and 5,000 inspectors recertified biennially) <i>Done</i> Start up IM240 lab by July 1, 2005 <i>On-hold</i>

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		<ul style="list-style-type: none"> • Communication for Enhanced Inspection and Maintenance Program <i>Ongoing</i> • Oversee initial and refresher training for inspectors <i>Ongoing</i> • Publish quarterly repair technician newsletter <i>Ongoing</i> <p>Program Development and Evaluation</p> <ul style="list-style-type: none"> • Improve inspection and maintenance testing equipment and software • Evaluate need for, and begin, if necessary, RFR for the next I&M program <i>Ongoing</i> • Equipment effectiveness evaluation: Start up the IM240 Test laboratory • Maintain Advisory Committee and subcommittees <p>Public Information</p> <ul style="list-style-type: none"> • Provide Information to the general public on the I&M program <i>Ongoing</i> • Update and Publish Registered Repairer repair report card <i>Ongoing</i> <p>Reports to EPA</p> <ul style="list-style-type: none"> • Prepare and submit annual report to EPA mandated by federal I&M regulations (Biennial report not due until 2006) <i>Annual reports submitted</i> 	<ul style="list-style-type: none"> • Conduct semi-annual Advisory Committee meetings 2005 <i>Done</i> • Oversee the updating and publishing of the Registered Repair Facility report card quarterly by contract 2005 <i>Done</i> • Oversee the quarterly publication of the program newsletter by contract 2005 <i>Done</i> • Oversee the replacement and upgrade of workstations by contractor by February 26, 2005 <i>Done</i> • Evaluate compliance of contractor with contract performance standards monthly 2005 <i>Done</i> • Prepare annual Interagency Service Agreement for execution with the Registry for IM program funding at DEP by IM Trust 2005 <i>Done</i>

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Mobile Source Air Pollution Control Transportation Control Measures LEV		Compliance and Enforcement <ul style="list-style-type: none"> LEV Compliance Assurance: <ul style="list-style-type: none"> Automobile purchaser assistance Dealer oversight and assistance Train, support RMV Registrations staff Assure LEV and ZEV Compliance by reviewing automobile manufacturer data on fleet mix and advanced technology vehicles placed in MA Implement flexibility within the Zero Emission Vehicle mandate with CA and other states to maximize the placement of advanced technology vehicles in MA by reviewing auto manufacturer's proposed plans for compliance Reporting: Rideshare compliance and enforcement State (Massport) and Municipal Parking Freezes: Parking Freeze compliance assurance Big Dig Mitigation: <ul style="list-style-type: none"> Review transportation agencies' (EOT/Mass Highway, MBTA, Massachusetts Turnpike Authority) projects for compliance with regulations and enforcement actions Review Mass Highway Department's study of the air quality benefits of the High Occupancy Vehicle Lane to ensure air quality benefits are met. Implement vent certification process under DEP/EOTC Vent cert regulation. Transportation Conformity: Review and concur with metropolitan planning organizations annual transportation plans and/or programs. <p style="text-align: center;">Permitting</p> <ul style="list-style-type: none"> MEPA Reviews of transportation related impacts 	<ul style="list-style-type: none"> Respond to routine consumer inquiries to determine if vehicles can be registered in MA/ Ongoing Review fleet mix data from 25 manufacturers: May 05 2005 Done Review ZEV compliance plans from approx. manufacturers by Sept 05 2005 LEV Reg. revised late 2005 and ACPs will be submitted DEP in January 2006 Provide updates to RMV on changes to LEV regulations to ensure only CA certified vehicles are registered in MA Ongoing Review rideshare reports from approx. 300 facilities, and take appropriate follow up enforcement Done Ensure parking freeze compliance in Boston, Cambridge, and Logan Airport Done Review of the HOV lane air quality benefits completed by within 3 months after submission by MHD 2005 Quarterly reports submitted MHD and reviewed Review and approval of 13 regional planning agencies' annual transportation control plans and/or programs Done Complete MEPA reviews for major projects necessary (note that we have mostly disinvolved in the activity) Done Adopt CA greenhouse gas rule by end of 20 reg. effective on 12/30/05 Develop ZEV compliance flexibility by June Reg. final 12/05 Develop Tunnel Vent Cert. Regulations Revisions (310 CMR 7.38) by June 05 Reg final 12/05

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		Regulation and Policy Development <ul style="list-style-type: none"> Develop CA Greenhouse Gas Rule for cars/trucks, (unclear if we're doing this – omit), ZEV compliance flexibility Revise Tunnel Vent Certification Regulations (310 CMR 7.38) to update monitoring protocols Big Dig Mitigation: Conduct public process to review, and as necessary revise outstanding transportation agency commitments 	<i>final 12/05</i> <ul style="list-style-type: none"> Decision on Big Dig mitigation changes by Spring 05 <i>Draft proposed Fall 2005, public hearing scheduled for 12/17/05</i>
Green House Gases	<ul style="list-style-type: none"> Provide funding support for states and NEG/ECP climate change action plan Oversee \$65,000 grant to New England Governors Conference to assist in administration of Climate Change Action Plan Oversee \$25,000 grant to Institute for Sustainable Energy for assistance in training state officials on use of EPA's building benchmarking tool for energy performance Assist Massachusetts communities (including Amherst, Brookline, Cambridge, Lowell, Somerville) on the benchmarking of energy performance of school and municipal buildings Promote Energy Challenge to 	Program Development and Evaluation <ul style="list-style-type: none"> Develop Greenhouse Gas strategy under the direction of the Commissioner's Office and Office of Commonwealth Development, and in cooperation with interstate air pollution control agencies Participate in the development of Regional Green House Gas Registry through NESCAUM, including stationary CO2 source inventory work Decide whether and if so how to implement the CO2 control provisions in 310 CMR 7.29 Participate in the Regional Greenhouse Gas Initiative by leading the developing a model rule that would establish a regional Greenhouse Gas cap and allowance program for power plants 	<ul style="list-style-type: none"> Decision on implementing CO2 controls by F 2004 <i>Draft Regulations proposed Fall 2005</i> Develop model rule for regional Greenhouse cap and allowance program for power plants April 2005 <i>Model Rule adopted by seven states December 2005 (MA did not sign)</i>

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	<p>Performance Track facilities in MA (seek commitment to reduce greenhouse gas emissions)</p> <ul style="list-style-type: none"> • Provide \$30,000 grant to Massachusetts Climate Network of municipalities to promote greenhouse gas reductions 		
<p>Diesel</p> <p>DEP, EPA and local Boards of Health employ a mix of approaches to controlling diesel pollution including regulatory standards, control equipment testing, fuel and control equipment standards, public information, enforcement of idling regulations and incentives.</p>	<ul style="list-style-type: none"> • Oversee \$483,000 grant to the City of Medford to retrofit 54 school buses with diesel particulate matter filters & fuel the fleet of 65 buses with ultra low sulfur diesel fuel (ULSF), for use in Medford and 13 neighboring communities • Oversee SEP for diesel engine retrofits on school buses in Boston • Identify and negotiate new SEPs for retrofits/cleaner fuels for diesel engines • Oversee SEP for lower sulfur diesel and retrofit MBTA commuter locomotive engines • Manage \$64,000 to the City of Boston to work with the touring trolley companies to retrofit vehicles with oxidation catalysts and 	<ul style="list-style-type: none"> • Promulgate and Implement new performance standards for small diesel engines at stationary sources (“distributed generation”) • Continued implementation of heavy duty vehicle emissions I&M program • Continued implementation of Best Management Practice (BMPs) and require retrofits for landfills, wastewater treatment plants funded by the state revolving loan fund, and construction equipment used on the Central Artery/Third Harbor Tunnel • Continued effort to prevent truck idling at truck stops and other locations • Continued work with individual school bus companies, and school bus company trade associations to implement anti-idling programs and conduct Inspections and follow up enforcement actions • Beyond ERP: HIHV School bus Idling: inspect and take appropriate enforcement actions against school buses that violate the anti-idling rules • Develop an action plan for further controlling diesel emissions. Plan should be complete during winter of 2004. Strategies under consideration include expanded anti-idling programs, expanded diesel 	<ul style="list-style-type: none"> • Distributed Generation rule Done • I/M heavy duty inspections Ongoing • BMPs and CA/T retrofits Ongoing • Truck Idling Ongoing • School Bus Idling – 3 rounds of inspections school bus idling performed at 91 schools; 1 enforcement actions issued; over 2000 school bus drivers trained to date • Diesel Plan Ongoing <ul style="list-style-type: none"> •

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	<p>encourage use of ULSF</p> <ul style="list-style-type: none"> Facilitate a pilot project in Boston to reduce air pollution and air toxics from transportation sources thru participation in EPA's voluntary transportation programs, i.e.; Voluntary Diesel Retrofit Program, Anti-Idling Initiatives, Best Workplaces for Commuters and SmartWay Transport. Pilot will launch with a workshop for Boston area businesses this winter. Work with Massport to reduce diesel emissions at Conley Terminal thru strategies such as emulsified diesel fuel, ULSF, diesel retrofits, and anti-idling outreach and enforcement Recognize employers that encourage their employees to commute to work in ways that reduce pollution & traffic congestion by adding names of these employers to the New England list of the Best Workplaces for Commuters employers. Provide and manage \$130,000 New England 	<p>powered vehicle tailpipe I&M program and program enforcement, promoting engine retrofits, promoting the use of ultra low sulfur fuel (ULSF) and tax credits for retrofits and early use of ULSF.</p>	

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	Asthma Regional Coordinating Council (ACR) grants for asthma reduction plan including school bus diesel retrofit pilots and anti-idling efforts in high risk communities with high risk of asthma		
Toxics NOTE: Other Multi Media Work, such as “Toxics Use Reduction” & “Beyond ERP” that apply equally to the Air & Industrial Wastewater Goals can be found under Goal 3: Manage Waste & Clean Up Waste Sites Lead: EPA goal to eliminate medically confirmed blood lead levels greater than 10jug/dL among children under age 6 by 2010 Mercury: EPA	General Toxics Work <ul style="list-style-type: none"> Implement the PSD program, in close coordination with MA DEP Review and provide comments on major non-attainment NSR permits, Title 5 operating permits, and permits to restrict emissions Review and take regulatory action on changes submitted on MA plan approval requirements at 310 CMR 7.02 Notify MA facilities subject to commercial, industrial, solid waste incinerator (CISWI) regs, and small municipal waste combustor (MWC) regs Work with NESCAUM workshop for states on revisions to the federal NSR program Work with NESCAUM’s Air 	General Toxics Work <ul style="list-style-type: none"> Reduction in daily toxic emissions resulting from the Enhanced Vehicle Maintenance Program <i>Ongoing</i> Reduction in daily toxic emissions resulting from the Stage II Vapor Recovery Program <i>Ongoing</i> State progress in collecting and compiling ambient and emission source data for toxics to better understand the nature and extent of the air toxics problem (Monitoring data results) <i>Ongoing</i> <p style="text-align: center;">Environmental Quality Assessment</p> <ul style="list-style-type: none"> Review and comment on the 1999 National Air Toxics Assessment, specifically targeting MA information <i>Ongoing</i> Enter MA-specific mercury emissions data into the National Emissions Inventory <i>Ongoing</i> Update air toxics information on DEP’s website <i>Ongoing</i> Mercury <ul style="list-style-type: none"> Achieve at least 85% reduction in mercury emissions from power plants <i>Ongoing</i> Mercury emissions from municipal waste combustors will decrease further due to pollution 	

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<p>Regional Mercury Model provides an integrated approach to assessing the effects of mercury from the atmosphere, point and non-point sources on watersheds and ultimately, fish populations</p> <p>Asbestos Enforcement Initiative: MA DEP's goal is to enhance and support enforcement of asbestos regulations and protect public health through:</p> <ul style="list-style-type: none"> • Increase targeted inspections • Publicize inspection efforts • Publicize enforcement cases <p>Dioxin: Two EPA projects are planned.</p> <ul style="list-style-type: none"> • Barrel Burning Project: • Source Inventories 	<p>Quality and Public Health Committee on presentations and guidance for states on air toxics regs, community air toxics projects, air toxics risk, and the results of the 1999 National Air Toxics Assessment (NATA) due in 2004</p> <ul style="list-style-type: none"> • Continue to send DEP weekly/monthly updates of new source performance standards (NSPS) and maximum available control technology (MACT) standards and host monthly air toxics conference calls • Semi-annually, send DEP options on accepting delegation of NSPS and MACT standards and delegate accordingly • Provide technical assistance and oversight for dispersion modeling for NSR/PSD sources • Provide assistance on MACT, NSR or NSPS applicability determinations • Oversee \$60,000 grant to Lawrence/ Merrimack Valley air toxics project • Oversee \$50,000 grant to 	<p>prevention, implementation of material separation plans, and new controls to be installed in 2003 and 2004 at two Municipal waste combustors Ongoing</p> <ul style="list-style-type: none"> • Reductions in power plant mercury emissions are expected upon installation of new SO₂ and NO_x controls at large power plants and upon promulgation and implementation of proposed power plant mercury regulations Ongoing <p>Asbestos</p> <p>Compliance and Enforcement</p> <ul style="list-style-type: none"> • Asbestos demolition/renovation compliance rate target to be determined through Beyond ERP • Targeted Inspections: DEP will perform asbestos inspections, targeting inspections based on the potential risk of exposure. (<i>Did 529 Inspections issued 28 Higher Level Enforcement actions</i>) • Off-Hour Inspections: To increase ability to discover violations, enforcement staff will perform inspections during weekends and evenings. Program Development and Evaluation Ongoing • Develop the following regulations and guidance for the asbestos program: Asbestos in Soil Regulations and Guidance, Routine Building Maintenance Asbestos Guidance, Revised Asbestos Base Penalty Amounts, Asbestos Cement Shingle Guidance, Asbestos Inspection Protocol for Solid Waste Handling Facilities Ongoing • Beyond ERP: Asbestos at Construction and Demolition Debris Processors Project: develop policies, revise permits as needed Ongoing • Beyond ERP: Asbestos Targeted Group and HHV: <ul style="list-style-type: none"> ○ Asbestos in soils regulation and policy development 	

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	<p>North Shore HealthLink air toxics project</p> <ul style="list-style-type: none"> • Work with states and regulated community in implementing Maximum Achievable Control Technology and New Source Performance Standards • Work with states to approve alternative state air toxics requirements which achieve superior environmental results as compared to federal MACT standards 	<ul style="list-style-type: none"> ○ Develop Routine Building Maintenance Asbestos Guidance ○ Revise Asbestos Base Penalty Amounts ○ Develop Asbestos Cement Shingle Guidance ○ Asbestos Inspection Protocol for Solid Waste Handling Facilities <i>Ongoing</i> <p style="text-align: center;">Reporting</p> <ul style="list-style-type: none"> • Reporting: Asbestos Notifications receipt and management <i>Managed 15531 Notifications</i> 	
<p>Maintain the Ambient Air Monitoring Network</p> <p>DEP meets the data capture standards for all parameters except for PM. DEP is working on a plan in consultation with EPA to improve PM data capture. Average data capture for PM2.5 rose from 70% to 80% between 2001 and 2002. DEP will continue to work to improve data.</p>	<ul style="list-style-type: none"> • Operate the Lowell carbon monoxide (CO) monitor (until EPA's coop student leaves in the spring of '04, when EPA will then revisit ability to continue support) • Conduct performance audits of Bio Watch monitors, ozone and other pollutant monitors • Conduct volatile organic compound (VOC) round robin for photochemical assessment monitoring stations (PAMS) • Continue to perform instrument performance audits at NAMS, SLAMS, and PAMS monitoring sites. • Review proposed changes to 	<ul style="list-style-type: none"> • Air quality monitoring network: upgrade per EPA grant commitment • Analyze air quality monitoring data <i>Ongoing</i> • Perform routine quality assurance/quality control on the ambient air quality network and data, in compliance with EPA-approved QAPPS <i>Ongoing</i> • Update PM2.5 QAPP, reflecting new equipment and EPA comments • Submit electronically to EPA ambient monitoring data on criteria pollutants within 90 days of the close of a calendar quarter, ambient monitoring PAMS data within 6 months of the close of each month in the ozone season, and air toxics data within six month <i>Ongoing</i> • Run and maintain the air monitoring network for criteria air pollutants (PM2.5, CO, NO2, SO2, PM10, Pb, Ozone (including BAM, speciation, and IMPROVE monitors) and for meteorological parameters, assuring a data collection of 90% for 	<ul style="list-style-type: none"> • Submit draft PM2.5 QAPP Update, in June <i>Draft submitted to EPA</i> • Complete the installation of the new PM2.5 monitors by winter 05 <i>done</i>

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	the air quality monitoring network and evaluate all new monitoring sites for proper sitting criteria	ozone and 75% for all <i>Ongoing</i> <ul style="list-style-type: none"> Run and maintain ambient monitoring network for non-criteria pollutants (PAMS, Toxics, PM Speciation) consistent with EPA requirements <i>Ongoing</i> 	
Acid Rain		Program Development and Evaluation <ul style="list-style-type: none"> Coordinate with New England Governor's Eastern Canadian Premiers Acid Rain work: forest mapping, acid deposition, and water quality monitoring <i>Ongoing</i> 	
Compliance and Enforcement	<ul style="list-style-type: none"> Prepare statewide GIS map of air toxics sources, major sources and potential EJ areas/ provide to MA for use in targeting and strategy development Cooperate on development of MA proposal to credit work performed on MA dry cleaner ERP program Employ risk-based targeting of inspections and enforcement; employ additional place-based targeting to address EJ issues, including continuation of 	<ul style="list-style-type: none"> Complete proposal to credit work performed on Massachusetts dry cleaner ERP program <i>Ongoing</i> Consider additional place-based targeting to address EJ issues, including continuation of cooperative efforts in Lower Mystic River watershed <i>Ongoing</i> Improve reporting of enforcement action in EPA databases and improve knowledge of facility universe <i>Ongoing</i> 	

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	EPA NE	MA DEP	Milestones
	cooperative efforts in Lower Mystic River watershed <ul style="list-style-type: none"> • Continue work with MA DEP to improve enforcement action reporting in EPA databases & improve knowledge of facility universe 		
Other Multi-Media Work (Toxics Use Reduction) & work done as part of the Beyond ERP initiative that applies equally to the Air and Industrial Wastewater can be found in the Waste Strategies Section of this PPA			

Goal 2: Clean and Safe Water

Drinking Water/Surface and Ground Water/Intact and Functioning Wetlands

National Status and EPA Strategies

Over the 30 years since the enactment of the Clean Water and Safe Drinking Water Acts, government, citizens, and the private sector have worked together to make dramatic progress in improving the quality of surface waters and drinking water. Today, drinking water is treated to be safe at the faucet end and protected at the source. Today, the number of polluted waters has been dramatically reduced, and many clean waters are even healthier. A massive investment of federal, state, and local funds has resulted in a new generation of sewage treatment facilities able to provide “secondary” treatment or better. More than 50 categories of industry now comply with nationally consistent discharge regulations. In addition, sustained efforts to implement “best management practices” have helped reduce runoff of pollutants from diffuse, or “nonpoint,” sources. But despite these outstanding improvements, population growth continues to generate higher levels of water pollution and places greater demand on drinking-water systems. To further our progress toward clean waters and safer drinking water, we must both maintain our commitment to the core measures we have already established and look for new ways to improve water quality and protect human health.

Massachusetts 2005-2006 PPA Water Program

As part of this PPA, in 2005, DEP piloted an innovative approach to the development of environmental goals and the work plans needed to achieve those goals and disseminate them via the internet. The pilot has been completed successfully and then 2nd year of this innovative program will be to institutionalize this approach for FY07. The electronic work plans for DEP's Water Programs can be found at: <http://www.mass.gov/dep/water/priorities/05home.htm> and is incorporated into this PPA by reference.

Water Program Milestone Deliverables

In addition, there are milestone deliverables that DEP anticipates meeting during the 2005-2006 PPA. A listing of these deliverables can be found at : <http://www.mass.gov/dep/water/priorities/05home.htm>

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	MILESTONES
Waste Reduction			
Solid Waste Master Plan Development		Program Development and Evaluation <ul style="list-style-type: none"> • Solid Waste Master Plan update and revision/mid course adjustment • Work with the external Solid Waste Advisory Committee and Subcommittees Analyzing solid waste streams to help target assistance programs: organics mapping Ongoing <ul style="list-style-type: none"> • Complete Annual Solid Waste Status Report for 2003 and Update Capacity Projections <h2 style="text-align: center;">Reporting</h2> <ul style="list-style-type: none"> • Collect, manage, and analyze solid waste Municipal Data Sheets, Processor Surveys, Compost Site Reports • Manage routine regulatory reporting requirements and associated data development & management activities for the Solid Waste Management Facility Annual Reports 	<ul style="list-style-type: none"> • Issue Draft Revised Ma Plan by April 2005 Draft issued 05 • Issue Final Revised Ma Plan by June 2005 Projected 06 • Complete the Annual Solid Waste Status Report for 2003 Done • Manage a total of 650 solid waste reports Done
Reduce Solid Waste and Promote Recycling Solid Waste Master Plan Implementation	<ul style="list-style-type: none"> • Implement targeted reduction /efficiency strategies on: Electronics waste, Food Waste, Green Buildings, including EPA Facilities • Implement targeted sector strategies on: Health Care/Hospitals, Schools, Colleges and Universities • Provide grant to MA DEP focused on Recycling Food Waste • Provide grant to MA WasteCap focused on Marine Shrinkwrap • Provide assistance to MA DEP for Food Waste Summit • Support electronic recycling coordination through Northeast Recycling Council (NERC) 	Solid Waste Diversion: Schools Grants/Loans/Technical Assistance/Outreach <ul style="list-style-type: none"> • School Recycling Programs/Green Team Solid Waste Diversion: Residential Grants/Loans/Technical Assistance/Outreach <ul style="list-style-type: none"> • Residential Food and Yard Waste: Home Composting Grants and outreach • Residential Food and Yard Waste: Support Pay As You Throw programs • Residential Paper: Award New Springfield MRF contract • Residential Paper: Equipment and Technical Assistance – support municipal recycling programs by maintaining tools and assistance • Residential Paper: Increase Pay As You Throw 	<ul style="list-style-type: none"> • Implement The Green '151 schools representing near 30,000 students. Start 4 new recycling programs and expand others. Provide equipment when necessary..Done • Award 20+ community home composting bins and/or waste buckets. Hold 8 composting workshops Done • Provide 3 PAYT grants provide 15+ communities with PAYT technical assistance, hold PAYT events, and meet with communities individually on PAYT..Done

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	MILESTONES
		programs <ul style="list-style-type: none"> Residential Paper: Recycling Education and Outreach – Leverage extensive outreach with limited resources 	<ul style="list-style-type: none"> Negotiate and award the Springfield MRF contract by 2004. Done Equipment and Technical Assistance Grants – Award of TA projects, Provide equipment to 25+ communities. Done
		Solid Waste Diversion: Commercial Grants/Loans/Technical Assistance/Outreach <ul style="list-style-type: none"> Commercial Organics: Expand Supermarket Composting Project Manage EPA Organics Grant for supermarket composting Commercial Organics: Hauler Outreach and Incentives Commercial Organics: Organics Summit Commercial Organics: Policy/program development Ongoing <ul style="list-style-type: none"> Commercial Organics: RIRC grants and RLF loans Commercial Organics: Work with farmers Commercial Paper and Cardboard: Support municipal business collection programs Commercial Paper and Cardboard: Work with hospitals Program Development and Evaluation Commercial Paper and Cardboard: Waste ban: hauler and generator outreach and enforcement 	<ul style="list-style-type: none"> With EPA grant - support waste diversion at 55 supermarkets and add another 25 stores. Add stores Give Wastewise awards to largest supermarket chains for joining Wastewise and diverting organics. Done Provide ongoing technical assistance to composting facilities perform 30+ site visits Done Negotiate and enter into with Mass Food Assoc. to have organics diversion industry by 2010. Done Hold Organics Summit with 200 participants in Spring, 2004. Done With EPA grant – provide farmers with hands-on technical assistance on BMP's of food waste composting. Done Award 1 grant to food waste diversion business through RLF Done Provide ongoing technical assistance to the 150+ municipalities

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	MILESTONES
			<p>business-recycling programs. mini-business recycling confere</p> <p>Done</p> <ul style="list-style-type: none"> Begin development of a hospital strategy through exper of the Shattuck Hospital Initia <p>Done</p> <ul style="list-style-type: none"> Develop strategy for enforcement of waste bans on and generators Done
		<p>Solid Waste Diversion: Construction and Demolition Debris Program Development and Evaluation</p> <ul style="list-style-type: none"> Wood and Gypsum Wallboard: C&D Subcommittee: Continue to hold regular committee and subcommittee meetings on the C&D ban and market development <p>Ongoing</p> <ul style="list-style-type: none"> Wood and Gypsum Wallboard: Promulgate C&D ban, conduct outreach and oversee facility waste ban planning <p>Grants/Loans/Technical Assistance/Outreach</p> <ul style="list-style-type: none"> Wood and Gypsum Wallboard: Gypsum wallboard market development/product stewardship Wood and Gypsum Wallboard: Targeted technical assistance and market development grants 	<ul style="list-style-type: none"> Promulgate C&D Waste Winter 2005 Promulgated O 05 Develop and issue guide Winter 2005, hold 2 workshop compliance with new ban. Gu and workshop developed Fa Hold 5 Gypsum workgr meetings to develop strategy 1 divert. Done Hold 5 Wood workgroup meetings to foster diversion. 1 Initiate Carpet workgroup develop diversion strategy. D Award 1 grant to busine diverting C&D material Awa grants
		<p>Solid Waste Diversion/ Hazardous Products: Mercury Products, Mercury in Schools, and Pesticides Permitting</p> <ul style="list-style-type: none"> Oversee Municipal Waste Combustor Mercury Material Separation Plans <p>Grants/Loans/Technical Assistance/Outreach</p> <ul style="list-style-type: none"> EPA Hospital Audit Program 	<ul style="list-style-type: none"> Review, approve and m municipal waste combustor r material separation plans Do Complete Hospital PPI report and develop/post 2 cas studies FY06 Hold 8 Pesticide Reduc

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	MILESTONES
		<ul style="list-style-type: none"> Pesticide Reduction and Healthy Lawns Support School Chemical Cleanouts Work with State Sustainability Council Ongoing 	<p>Workshops for up to 20 communities. Done</p> <ul style="list-style-type: none"> Award grant to 4 comm for school chemical cleanouts management Done. Participate in implemen plan development for State Sustainability – Toxics. Done
		<p>Solid Waste Diversion: Basic Program Infrastructure Grants/Loans/Technical Assistance/Outreach</p> <ul style="list-style-type: none"> Bottle Bill Oversight/Registration/Grants Business Recycling Assistance – support WasteCap ongoing business assistance Buy Recycled/Market Development Support– Assist in Buy Recycled/EPP Vendor Fair, serve as clearinghouse for information and support requests DARP Oversight Municipal Recycling Grants – Equipment and Education continue to provide grants to support new and expanded municipal waste reduction initiatives Promote Product Stewardship: Carpet, Electronics, and Paint Regional Recycling Coordination/Technical Assistance with municipal officials Surplus Property Reuse and Distribution: Coordinate and document municipal exchanges School Recycling Programs/Green Team Ongoing 	<ul style="list-style-type: none"> Award \$1.375 M (1.268 redemption center grants Done Register Redemption C twice. Done Collaborate with Waste providing technical assistance businesses Not Done Hold 6 workshops at EF Vendor Fair. Serve on organi: comm. Done Begin strategizing and l meetings on DARP post 2005 Award grants to 50 communities for recycling eq and education totaling approx \$200,000. Done Sign Product Stewardsh Agreement on Paint. Done Increase Surplus Proper Reuse and distribution by 25% Document all matches. Done Initiate Carpet workgro develop diversion strategy Do
		<p>Sustainability Program Development and Evaluation</p> <ul style="list-style-type: none"> Sustainability Council Participation 	<ul style="list-style-type: none"> Develop and implement plan for the Waste Reduction component of the State Sustai

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	MILESTONES
		Grants/Loans/Technical Assistance/Outreach <ul style="list-style-type: none"> Web Page Development to support key initiatives Ongoing	Plan Done <ul style="list-style-type: none"> Attend monthly SSC M Done
Toxics Management and Reduction – TURA Program (NOTE: This is a multi media program equally relevant to Air and Industrial Wastewater Goals)		Reporting <ul style="list-style-type: none"> TURA Annual Report collection, management, review and analysis Tier 2 Right to Know reporting assistance to regulated community Ongoing Public Information <ul style="list-style-type: none"> TURA Progress Assessment: Prepare Annual TURA Data Release and Report to Legislature Program Development and Evaluation <ul style="list-style-type: none"> Develop TURA Redesign Legislation with TURA Partners (secretary's priority) Done Coordination with external "TURA Partners" Ongoing Toxics Use Reduction Regulatory Package: Streamlining regulations Done Permitting <ul style="list-style-type: none"> Issue Toxics Use Reduction Planner Certifications Fees <ul style="list-style-type: none"> Issue Toxics Use Reduction Bills for 2004 Data Systems Development <ul style="list-style-type: none"> TURA eDEP – Improve filing forms to increase percentage of companies filing electronically Done Compliance and Enforcement <ul style="list-style-type: none"> TURA Annual Report collection, management, compliance and enforcement and analysis Ongoing issued 64 enforcement actions for reporting violations Inspect Large Quantity Toxics Users and take appropriate follow up enforcement Did 130 inspections at LQTUs issued 11 enforcement actions 	<ul style="list-style-type: none"> Manage reports from 62 Quantity Toxics Users 633 re Issue annual TURA Data Release and Report to legislature July 2005 2003 Data Release October 2005; legislative re issued in February 2005 Issue 90 Toxics Use Reduction Planner Certifications Received on 69 Issue \$4.1 million of TURA bills to approximately 620 facilities Done
Beyond ERP (Note: The program		<ul style="list-style-type: none"> Continued Assessment and program oversight streamlining on six sectors: solid waste transfer stations, 	

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	MILESTONES
<p>innovation is equally relevant to air & industrial wastewater goals)</p> <p>Apply ERP techniques to a broad portion of the regulated universe ie.:</p> <ul style="list-style-type: none"> • Establish performance targets • Evaluate performance against those targets • Streamline oversight if performance is adequate, and • Additional measures if performance is below target 		<p>Biotech facilities, small engines and turbines (distributed generators), mercury discharges from dental offices, stage II gasoline facilities, and photo processors. These projects are being done as part of a “design/build strategy” to help inform the overall design of the Beyond ERP initiative.</p> <ul style="list-style-type: none"> • Assessment and program oversight of new sectors for FFY05: Illegal dischargers to drinking water protection areas, closed landfills, soils processors, asbestos, and other targets to be identified Ongoing • Implementation of new oversight strategy that provides routine field oversight to “most risky” facilities, and report review and appropriate enforcement response to other sources Done • Development and implementation of new inspection types to be used in assessment and to broaden our field presence 	
Proper Operation of Solid Waste Management Facilities		<p>Compliance and Enforcement</p> <ul style="list-style-type: none"> • Beyond ERP: HIHV project: Inactive Landfill Assessment Ongoing • Review groundwater monitoring reports from solid waste management facilities and take appropriate follow up action • Review financial assurance reports from solid waste management facilities and take appropriate follow up action Reviewed 66 reports • Conduct inspections and follow up enforcement at solid waste management facilities <p>Program Development and Evaluation</p> <ul style="list-style-type: none"> • Beyond ERP: Petroleum Contaminated Soils 	<ul style="list-style-type: none"> • Conduct approximately inspections at solid waste management facilities and take appropriate follow up enforcement Did 713 Inspections issued enforcement actions • Work on over 200 active waste facility permit and plan approval applications, and begin use determinations Complete action on 236 applications • Promulgate Solid Waste facility regulations and develop

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	MILESTONES
		<p>Processors Project Ongoing</p> <ul style="list-style-type: none"> Evaluate asbestos management at SW processing facilities Ongoing Beyond ERP: Asbestos Targeted Group and HHV: Asbestos in soils regulations Ongoing Beyond ERP: Transfer Station Project: Alternative Penalty Policy Parked Beyond ERP: Transfer Station Project: Certification Regulations Decided not to do Regulation, Policy and Guidance Development for Solid Waste (non Beyond ERP): Facility, Beneficial Use Determinations, Facility Based Impact Assessments, Waste Bans, Master Plan Implementation, H2S Action Level, Municipal Ferrous Policy Done Regulation, Policy, and Guidance Development for Solid Waste (non Beyond ERP): guidance for assessing groundwater contamination at landfills and siting new landfill capacity in water quality sensitive areas Parked Work with the external Solid Waste Advisory Committee and Subcommittees Ongoing <p>Permitting</p> <ul style="list-style-type: none"> Issue state-wide Solid Waste Beneficial Use Determination Permits for waste reuse activities Issue permits for solid waste management facility development and expansion 	<p>related guidance by winter 04</p> <p>Regulations promulgated F:</p> <ul style="list-style-type: none"> Manage over 1000 repo solid waste facilities Done
<p>RCRA</p> <p>Joint effort to streamline the RCRA Authorization process</p>	<ul style="list-style-type: none"> Co-chair national functional equivalence workgroup Work with DEP on authorization process streamlining pilot package Work with DEP to establish acceptable satellite accumulation area policy 	<p>Program Development and Evaluation</p> <ul style="list-style-type: none"> Participate in the ECOS Project - Functional Equivalence Workgroup designed to provide states with flexibility in the implementation of Federal hazardous waste management requirements (Commissioner Office priority) Beyond ERP: Biotech Project: develop DEP satellite accumulation regulations and hazardous waste waiver regulations Develop Hazardous Waste Resource Conservation and 	<ul style="list-style-type: none"> Develop Satellite accumulation policy by October 04 Done Authorization streamlining pilot chosen by February 2007 Deemed infeasible Final regs, AG statement and MOU submitted to EPA 12/3/07 Ongoing for correct action – have draft regulations

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	MILESTONES
		<p>Recovery Act Authorization Regulations Develop a plan for making progress on Federally mandated RCRA authorization - C-4 to C-9 Parked: replaced with RCRA Corrective Action</p> <ul style="list-style-type: none"> Evaluate EPA Project XL Laboratory Project which provides universities with temporary variances from certain hazardous waste management regulations to determine if the project should be continued, per EPA grant commitment EPA issued regulations to extend project XL we need to do the same Serve on the Board of Directors of the Northeast Waste Management Organization Association to promote interstate cooperation/ coordination Ongoing Work with the external Hazardous Waste Advisory Committee Ongoing Verify permit renewal baseline established by EPA NE Draft 310 CMR 21(c) regulations necessary to be authorized for RCRA Corrective Action <p>Permitting</p> <ul style="list-style-type: none"> Permitting: Issue TSDF Licenses, Transporter Licenses , Emergency Treatment approvals, Hazardous Waste Treatability Studies, and Transporter Vehicle Identification Numbers Perform Hazardous Waste Facility Siting Determinations Under MGL C21D (if needed) <p>Reporting</p> <ul style="list-style-type: none"> Process Hazardous Waste Manifests Manage routine regulatory reporting requirements and associated data systems development & management activities for electronic monthly operating report from hazardous waste transporters Manage routine regulatory reporting requirements and associated data systems development & management activities for hazardous waste biennial report and RCRIS and 	<p>developing AG statement, p description and memorandum agreement</p> <ul style="list-style-type: none"> Impasse on national Fu Equivalence Workgroup prod resolved by Spring 2005 Done Final national Function: Equivalence Workgroup prod issued as guidance by Summe National Guidance issued by Permit renewal baseline end of FY05 Done Develop plan for RCRA authorization progress by Sep 30, 2005 Done Issue 4 TSDF Licenses 30 Transporter Licenses, Did Emergency Treatment approv Did 1 and 100s of Transporter Vehicle Identification Numbe Process 350,000 hazard waste manifests Done Manage 1560 + hazard waste transporter monthly op reports Done Inspect approximately 1 large quantity hazardous wast generators and take appropria follow up enforcement Did 14 inspections issued 62 enforc actions Inspect several hundred quantity hazardous waste gen and take appropriate follow u

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	MILESTONES
		<p>submit compliance and enforcement reports to EPA</p> <p>Ongoing</p> <p>Compliance and Enforcement</p> <ul style="list-style-type: none"> Take enforcement for hazardous waste related and Land Disposal Facility reporting violations Perform compliance monitoring, report review, inspections and enforcement for hazardous waste transporters Did 8 inspections issued 21 enforcement actions Perform groundwater assessment monitoring at hazardous waste and solid waste facilities Reviewed 8 reports at TSDFs as part of licensing, closing or post closure monitoring Review financial assurance reports from hazardous waste management facilities and take appropriate response Reviewed 24 reports from facilities and 109 from transporters Inspect and take appropriate enforcement actions at hazardous waste generators, offsite hazardous waste recyclers, and Treatment Storage and Disposal Facilities <p>Data Systems Development</p> <ul style="list-style-type: none"> Systems Development: CDX Network readiness grant - RCRA redesign, EPICS integration, testing, data transfer protocols to EPA <p>Fees</p> <ul style="list-style-type: none"> Support Hazardous Waste Manifest and Cost Recovery Operations with BWSC Ongoing 	<p>enforcement Did 132 inspections issued 89 enforcement actions</p> <ul style="list-style-type: none"> Inspect all 13 treatment storage and disposal facilities take appropriate follow up enforcement Done issued 3 enforcement actions Inspect 25 commercial and industrial waste recyclers and take appropriate follow up enforcement Did 15 inspections at licensed recycling facilities issued 8 enforcement actions Review several hundred reports from hazardous waste management facilities Done RCRA CDX Readiness <ul style="list-style-type: none"> DEP runs successful translations in the EPA test environment DEP final decision move translated data into production DEP runs a full replace translation from legacy into the production RCRA handler module two months <p>EPA HQ has translation software in place.</p> <p>Done – node has successfully transferred data, currently final testing and adjustments</p>
Oversee Cleanups at RCRA Corrective	<ul style="list-style-type: none"> Work with DEP in meeting the 	<p>Program Development and Evaluation</p> <ul style="list-style-type: none"> Regulation, Policy and Guidance Development for 	<ul style="list-style-type: none"> Final regulations, Attorney

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	MILESTONES
Action Sites	<p>Environmental Indicators (EI) at the remaining Government Performance Results Act (GPRA) sites and in developing a schedule for achieving Remedy Decisions and Construction Completions at all sites subject to RCRA Corrective Action</p> <ul style="list-style-type: none"> • Work with DEP in making Remedy Decisions and Construction Completions at sites subject to RCRA Corrective Action • Work with DEP in updating the RCRA database for Corrective Action activities • Conduct RCRA corrective action at several EPA lead sites in order to meet the EI's (Zeneca, Englehard, Clean Harbors Braintree, Columbia Mfg.). 	<p>Hazardous Waste (non Beyond ERP): Federally Corrective Action authorization work Ongoing</p> <p>Permitting</p> <ul style="list-style-type: none"> • Perform closure activities at hazardous waste facilities as required and evaluate Resource Conservation and Recovery Act Environmental Indicators <p>RCRA Corrective Action</p> <p>As a one-time commitment, DEP has agreed to the following site-specific goals in the 2004-206 PPA in order that EPA Region I can make required commitments to meet its GPRA goals. This is a level of specificity that DEP does not believe should be incorporated into the PPA. It must also be noted that these are site-specific goals. There is some uncertainty about what will be found at these sites as clean-up activities proceed. Completion dates might need to be revisited if site conditions mean the timelines must be extended.</p> <ul style="list-style-type: none"> • Complete the human exposure EI checklists for the state lead 2005 GPRA sites • Complete all activities necessary to meet the Human Exposure indicator at the Wyman Gordon site by 9/30/05 • Review Bostik site files and complete all activities necessary to meet the Human Exposure indicator by 9/30/05 • Work with EPA to complete the EI checklists at the Leavens Awards and Walton & Lonsbury sites by 9/30/05 • Coordinate with EPA in making remedy decisions and remedy construction completions for sites on the new 2008 GPRA Baseline Ongoing • Provide assistance to EPA in updating the RCRA database for Corrective Action activities and in obtaining documents at sites subject to RCRA Corrective Action from Licensed Site Professionals. Ongoing 	<p>General Statement and Memo of Understanding submitted to by 3/30/07 Ongoing</p> <ul style="list-style-type: none"> • Meet the Human Exposure and complete the human exposure checklists for all remaining 20 GPRA Baseline sites by September 30, 2005 (this excludes the Glen Pittsfield site) Done
Industrial Wastewater		<p>Program Development and Evaluation</p> <ul style="list-style-type: none"> • Beyond ERP: Biotech Project: IWW Certified Operator Regulations and Permit Standards Done 	

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	MILESTONES
		<ul style="list-style-type: none"> Beyond ERP: Dental Mercury Project: Development Done Beyond ERP: Illegal Discharges to Drinking Water Protection Areas Targeted Group lead Regulation, Policy and Guidance Development for Industrial Wastewater (non Beyond ERP): BRP groundwater discharge amendments Strategy agreed upon Reporting <ul style="list-style-type: none"> Beyond ERP: Dental Mercury: Manage the voluntary certification process Done Permitting <ul style="list-style-type: none"> Permit industrial discharges to groundwater Coordinate with EPA on NPDES permits Ongoing Compliance and Enforcement <ul style="list-style-type: none"> Conduct inspections and review monitoring data from industrial wastewater dischargers and take appropriate follow up enforcement 	
Program Development and Support		Compliance and Enforcement <ul style="list-style-type: none"> Implement municipal stewardship grant & measurement program - extended 6 month for recognition program and develop plan to transition program Done Data Systems Development <ul style="list-style-type: none"> Systems Development: CDX Network readiness grant - RCRA & Air Quality database work - redesign, EPICS integration, testing, data transfer protocols to EPA Systems Development: Single Actor Model (SAM) - EPICS Integration work w/ITO Systems Development: EDEP Support – Building forms, outreach to regulated community and technical support of eDEP application for all BWP forms Systems Development: C&E Enhancement Systems work – MADOG, Citation Library, EPICS data model Changes Participate in Quality Management Planning work group 	

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	MILESTONES
		Fees <ul style="list-style-type: none"> • Issue Toxics Use Reduction Bills for 2004 Done • Data support to Annual Compliance Fee (ACF) program - cleanup/extract for bills Done Program Development and Evaluation <ul style="list-style-type: none"> • Work on NEWMOA and ASTSWMO projects to facilitate interstate waste management coordination Ongoing • Implement Measures of Success Project Done Program Planning and PPA <ul style="list-style-type: none"> • EPA grant commitment negotiations Ongoing Public Information <ul style="list-style-type: none"> • Track and coordinate response to Freedom of Information Requests Ongoing • Inter/intranet management, including Public Access Project Ongoing 	

Goal 3: Manage Wastes and Clean Up Waste Sites

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
Waste Site Cleanup			
Maximize Risk Reduction Ensure Implementation of Mandatory Risk Reduction Measures		<ul style="list-style-type: none"> • Provide technical assistance to parties proposing IRAs • Oversee response actions in the field and mobilize state contractors where responsible parties cannot or will not respond • Provide oral approvals of IRA Plans • Review and approve follow-up written IRA Plans • Perform field visits to oversee IRAs in progress • Track progress in the database to ensure timely implementation of IRAs • Review IRA Completion Statements • Enforce deadlines for PRPs to perform mandatory risk reduction measures <p><i>All risk reduction actions ongoing</i></p>	<ul style="list-style-type: none"> • Open IRAs reviewed for CEP conditions - ongoing • Downgradient Permit Status (DPS) and Utilization-Related Abatement Measures (URAMs) reviewed for IRA/CEP conditions - ongoing • Enforcement actions initiated against parties found in noncompliance <p><i>Continued to use tools against noncompliers: ACO, ACP, Unilateral Order, PAN, NORA/lien</i></p>
Oversee and Perform Emergency Response Activities		<ul style="list-style-type: none"> • Work with federal, state, and local authorities to plan for and define DEP's role in any incidents involving weapons of mass destruction <p><i>Initiated internal discussions to explore ways to assist in the Commonwealth's preparedness missions</i></p> <ul style="list-style-type: none"> • Coordinate with the Coast Guard when oil or hazardous material is released to the ocean, and act as the State On-Scene Coordinator (SOSC) in the Incident Command System (ICS) <p>ongoing</p> <ul style="list-style-type: none"> • Respond to fish kills, in accordance with 	

Goal 3: Manage Wastes and Clean Up Waste Sites

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
		an inter-agency MOU with the Department of Fish and Game - <i>ongoing</i> <ul style="list-style-type: none"> Respond to releases on state highways, in accordance with an MOU with the MA Highway Department - <i>ongoing</i> Coordinate with the MA Department of Public Health in responding to releases of medical waste to the environment - <i>ongoing</i> Respond with the Department of Fire Services Regional HazMat teams and coordinate remediation of hazmat incidents - <i>ongoing</i> 	
Address Serious Risks Using Public Funds with State Contractors		<ul style="list-style-type: none"> Conduct time-critical assessment and remediation activities (such as residential indoor air evaluation, emergency water supply) to address risks to sensitive receptors in cases where there is no known, willing, or able PRP Investigate potential sources of contamination and conduct targeted remediation to protect municipal water supplies in various communities <p><i>Both actions ongoing</i></p>	<ul style="list-style-type: none"> Implement the Urban NOR/ Enforcement Project <p><i>WRO threatened to issue a CRO on 13 sites and hire state contractors to perform the cleanups. All 13 responded that no MassDEP action was necessary. CRO issued on NORA that resulted in an ACOP; cleanup work completed</i></p> <ul style="list-style-type: none"> Investigate the sources of perchlorate contamination in surface water, public and private drinking water wells

Goal 3: Manage Wastes and Clean Up Waste Sites

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
			<p><i>Investigated perchlorate in drinking water wells in Boxborough, Boxford, Chesterfield, Hadley, Tewksbury, Westford, We. and Williamstown</i></p> <ul style="list-style-type: none"> • Recover, to the maximum extent possible, the costs incurred by MA DEP performing publicly funded risk reduction actions <p><i>ongoing</i></p>
Triage		<ul style="list-style-type: none"> • Screen response action submittals and identify IRA, risk reduction, and enforcement needs and opportunities • Refine triage process, criteria, and forms as needed to reflect and better support program operations in the face of significant staffing reductions • Ensure appropriate level of IRA and other follow-up at those sites where risk and/or enforcement concerns are greatest <p><i>All actions ongoing</i></p>	<ul style="list-style-type: none"> • Refine triage process, criteria, and forms as needed to reflect and better support program operations in the face of significant staffing reductions • Ensure appropriate level of IRA and other follow-up at those sites where risk and/or enforcement concerns are greatest

Goal 3: Manage Wastes and Clean Up Waste Sites

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
			<i>Both milestones ongoing</i>
Provide Direct Oversight of Response Actions at the Most Complex Sites		<ul style="list-style-type: none"> Identify sites (through triage and other means) that pose the most concern with respect to complexities and/or risks to health, safety, public welfare, or the environment Identify specific IRA conditions and/or contaminant transport/exposure pathways where direct DEP oversight is necessary to ensure adequate short and/or long-term progress and resolutions (such as sites posing threats to public drinking water supplies) Articulate specific objectives and parameters of DEP oversight, and assign staff accordingly <p><i>All actions going</i></p>	<ul style="list-style-type: none"> Review on an annual basis to ensure need to maintain direct DEP oversight, considering site conditions, progress made, and achieving objectives, re-availability, and oversight needs of other sites - <p><i>ongoing</i></p>
<p>Increase Rate of Cleanups at Waste Sites</p> <p>Enforce Against Parties Not Performing Cleanups</p>		<ul style="list-style-type: none"> Enforce against parties who fail to notify DEP of releases as required by the MCP Issue anniversary reminder letters Strive to ensure first year preliminary response action compliance Issue Notices of Noncompliance and Interim Deadline letters Issue penalties and unilateral orders Negotiate Administrative Consent Orders Identify sites without viable PRPs and develop case-specific strategies to address them Identify recalcitrant PRPs and develop case-specific strategies to address them <p><i>All actions ongoing</i></p>	<ul style="list-style-type: none"> Send NONs to PRPs who fail to Tier C or conduct phase <p><i>ongoing</i></p> <ul style="list-style-type: none"> Send NONs to PRPs whose Tier I permit and Tier II classifications have expired <p><i>ongoing</i></p> <ul style="list-style-type: none"> Send NONs to PRPs whose sites are in P V or ROS if the sites are not operating properly or being monitored <p><i>ongoing</i></p>

Goal 3: Manage Wastes and Clean Up Waste Sites

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
			<ul style="list-style-type: none"> Implement the Un NORA/Lien Enforcement Proj <p><i>WRO threatened to issue a on 13 sites and hire state contractors to perform the cleanups. All 13 responded no MassDEP action was necessary. CRO issued on NORA that resulted in an ACOP; cleanup work con</i></p> <ul style="list-style-type: none"> Work with DFS to address abandoned USTs <p><i>ongoing</i></p>
Streamline and Maintain Compliance Tracking Systems		<ul style="list-style-type: none"> Create records in the Waste Site Cleanup (WSC) database after receiving notice of a release or threat of release Enter information from transmittal forms into the WSC database as reports are received Enter information into the WSC database summarizing DEP-issued correspondence Perform queries to evaluate the status and history of submittals at individual sites or categories of sites, and to generate compliance reports for targeted enforcement Automate the generation of NONs Develop analysis tools to improve evaluation of deadline compliance Revise BWSC transmittal forms as needed Increase use of online transmittal forms with incentives and outreach to LSPs and PRPs 	<ul style="list-style-type: none"> Automate the generation of NON <p><i>Created a new database category that classifies non responders, allowing BWSC address them as a distinct universe. Non-responder sets were evaluated using new categories; so targeted enforcement strategies could be developed. NON template used with the intention that would eventually be automated</i></p> <ul style="list-style-type: none"> Increase use of online transmittal forms

Goal 3: Manage Wastes and Clean Up Waste Sites

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
		<ul style="list-style-type: none"> Improve user interface of WSC database by staff, both in the field and in the office <i>All actions ongoing</i>	<p>incentives and out to LSPs and PRP</p> <p><i>Developed strategies, including outreach and training, Improved access to BWSC files, and potential electronic filing mandates. Use of e-filing increased to 462 submissions from 76 the previous year</i></p>
Encourage Deadline Compliance by Collecting Annual Compliance Fees		<ul style="list-style-type: none"> Continue to review and invoice fixed Annual Compliance Fees Continue to streamline billing procedures <i>Both actions ongoing</i>	
Ensure the Quality of Cleanups at Waste Sites Maintain Compliance Checks/ Inspections for Privatized Cleanups		<ul style="list-style-type: none"> Conduct site audits as required by law: <ul style="list-style-type: none"> Level 1 audits (submittal screening) Level 2 audits (field inspections to ensure that IRAs, RAMs, Remedy Operation Status, and AUL Obligation and Maintenance conditions are implemented) <i>All actions ongoing</i>	<ul style="list-style-type: none"> Audit all at which are implemented <p><i>Ongoing</i></p> <ul style="list-style-type: none"> Publish findings LSPA newsletters <p><i>Published audit and enforcement findings in LSPA Newsletters</i></p> <ul style="list-style-type: none"> Conduct training audit case studies

Goal 3: Manage Wastes and Clean Up Waste Sites

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
			<i>Conducted nine LSP class audit case studies</i>
Conduct Enforcement to Address Noncompliance with MCP Performance Standards		<ul style="list-style-type: none"> Review response actions to evaluate quality <i>ongoing</i> Conduct comprehensive compliance reviews <p><i>WRO increased auditing actions at remedial systems, yielding increased compliance through issuance of one NON and two ACOPs.</i></p> <ul style="list-style-type: none"> Issue NONs or higher level enforcement to PRPs who violate the MCP requirements <p><i>Ongoing</i></p> <ul style="list-style-type: none"> Refer LSPs whose opinions persistently or egregiously violate MCP standards to the LSP Board for disciplinary investigation <p><i>Referred one LSP to the LSP Board</i></p> <ul style="list-style-type: none"> Issue NONs or higher level enforcement against LSPs or consulting firms who perform work that persistently or egregiously violates MCP standards <p><i>Issued one administrative penalty to a consultant and 6 NONs to LSPs/consultants</i></p> <ul style="list-style-type: none"> Refer cases to the AG for civil or criminal enforcement - <i>ongoing</i> Provide technical support and/or testimony in support of LSP Board disciplinary investigations and AG enforcement actions <p>Assisted Board during investigations of eight previous complaints</p>	<ul style="list-style-type: none"> Review LSP performance during audits <p><i>Ongoing</i></p> <ul style="list-style-type: none"> Conduct Double-blind laboratory study <p><i>MassDEP conducted a large double-blind laboratory evaluation study, involving commercial laboratories to provide the majority of analytical support services; parties assessing and cleaning up hazardous waste sites in Massachusetts. The vast majority of the laboratories evaluated were able to consistently quantify most analytes within 20% of the actual value. This excellent result is well within the most stringent acceptance criteria used by the industry.</i></p> <p><i>Each regional office selected community to determine whether 21E sites proximate</i></p>

Goal 3: Manage Wastes and Clean Up Waste Sites

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
			<i>schools and other sensitive receptors were in compliance with the MCP. The Fall 1 (July) report was issued d FY 2005; studies in the other regions were well underway, not completed. MassDEP evaluated 89 reported releases within 1000 feet of 48 Fall schools. The result: response actions had been conducted properly at the majority (8 percent) of sites. For 12 , where response actions were inadequate or behind schedule, MassDEP found that site conditions did not pose schools or nearby residents initiated enforcement action for the cleanups to get the back on schedule. As a result these enforcement efforts, compliance rate for the Fall Rivers sites evaluated rose percent.</i>
Ensure that Policies and Regulations Promote Program Goals		<ul style="list-style-type: none"> • Issue Wave 2 public hearing draft - completed • Finalize data enhancement program completed • Issue Q&As - ongoing • Issue draft policy on feasibility evaluations for <ul style="list-style-type: none"> ○ Critical Exposure Pathways ○ Permanent vs. Temporary Solutions ○ Selection of Remedial Action Alternatives ○ Reducing/Detoxifying OHM Present at a 	<ul style="list-style-type: none"> • Released draft 9/20/2004 completed • Finalize 9/10 completed • Issue Q&As periodically <p>WSC-04-160 was issued 7</p>

Goal 3: Manage Wastes and Clean Up Waste Sites

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
		Site Above UCLs <ul style="list-style-type: none"> o Destruction/Detoxification vs. Capping <i>ongoing</i> <ul style="list-style-type: none"> • Issue final Monitored Natural Attenuation guidance <i>ongoing</i> <ul style="list-style-type: none"> • Issue final asbestos-in-soil policy <i>ongoing</i>	<i>work on the remaining components is ongoing</i> <ul style="list-style-type: none"> • Issue draft M. February 200 • Issue AIS po February 200 <i>ongoing</i>
Provide Direct Oversight for Federal Sites National Priorities List	Provide MA DEP funding under a Superfund Block Funding Cooperative Agreement (V99174203) which includes supporting National Priority List (NPL) activities for 35 NPL sites and core activities for eligible non-site specific work. In general, this grant covers MA DEP personnel time and some state contractual work in support of EPA NPL program.		
National Priorities List	Work with the state on a range of site clean up related activities including: review, comment, and concurrence on all major documents, participation in public meetings, state contractor oversight, identification of state ARARs, and timely communication of issues and concerns. Work with MA DEP to submit (Under the Superfund Regulation, 40 CFR Part 35 Subpart O), Quarterly Progress Reports, Financial Status Reports, MBE/WBE Reports, and Property Inventory Reports, if applicable. Work with DEP on Institutional Controls – an area of renewed emphasis – to evaluate and resolve overarching issues impacting numerous sites		
National Priorities List	Atlas Tack site:		

Goal 3: Manage Wastes and Clean Up Waste Sites

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
	<ul style="list-style-type: none"> Continue Remedial Action, begin additional phases of remedial action as funding allows 		
	Baird and McGuire site: <ul style="list-style-type: none"> Obtain DEP review and concurrence of an Explanation of Significant Differences and begin cooperative effort on Institutional Controls concurrence of a Five-Year review 	Baird and McGuire site: <ul style="list-style-type: none"> Complete takeover and implementation of operation and maintenance activities <i>Completed O&M activities; completed evaluation of 5-year review</i>	
	Blackburn & Union Privileges site: <ul style="list-style-type: none"> Complete Remedial Investigation/Feasibility Study, issue proposed plan and Record of Decision for cleanup (Alternate EPA Target) 		
	Cannons (Bridgewater) site: <ul style="list-style-type: none"> Complete five-year review of remedy with DEP input 		
	Charles George site: <ul style="list-style-type: none"> Complete five-year review of remedy with DEP input 		
	General Electric <ul style="list-style-type: none"> The Consent Decree created a "management architecture" which includes periodic meetings of the Regional Administrator, MA DEP Commissioner, Mayor of Pittsfield, Director of the Pittsfield Economic Development Authority and GE's VP in charge of Corporate Environmental Affairs. These meetings occur about 3 times per year. EPA will work with DEP on another part of the consent decree where dozens of environmental restrictions are required to be placed on properties. DEP must be involved in the negotiation process in order to ensure that the final restrictions are acceptable to DEP who will be the grantor of the restrictions. 		

Goal 3: Manage Wastes and Clean Up Waste Sites

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
	Groveland Wells site: <ul style="list-style-type: none"> Continue operation of groundwater remedy Evaluate additional source control options, implement recommendations of remedy optimization review with DEP input Complete five-year review of remedy with DEP input 		
	Hatheway & Patterson site: <ul style="list-style-type: none"> Complete Remedial Investigation/Feasibility Study, issue proposed plan and Record of Decision for cleanup. Obtain DEP review and concurrency on ROD 		
	Haverhill Landfill site; <ul style="list-style-type: none"> Continue coordination with DEP on PRP's drum removal and investigation activities 	Haverhill Landfill site; <ul style="list-style-type: none"> Work with the PRP's to remove or secure buried drums <i>Secured and removed buried drums</i>	
	Hocomonco Pond site: <ul style="list-style-type: none"> Work with DEP and PRP on DNAPL recovery issues 		
	Industri-Plex site: <ul style="list-style-type: none"> Work with DEP and PRP's to complete and implement institutional controls Conduct Feasibility Study (in conjunction with Wells G&H site), issue proposed plan and Record of Decision for cleanup (alternate EPA target) 	Industri-Plex site: <ul style="list-style-type: none"> Work with EPA and the PRPs to complete and implement institutional controls <i>Completed review of and implemented institutional controls</i>	
	Iron Horse Park site: <ul style="list-style-type: none"> Begin negotiations with PRPs for Remedial Design/Remedial Action 		
	New Bedford harbor site:	New Bedford Harbor site:	

Goal 3: Manage Wastes and Clean Up Waste Sites

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
	<ul style="list-style-type: none"> Continue Remedial Action – dredging and disposal of dredge materials Complete five-year review of remedy with DEP input 	<ul style="list-style-type: none"> Serve on the Portsfields Steering Committee to coordinate redevelopment of the port area <i>ongoing</i>	
	Norwood PCB site: <ul style="list-style-type: none"> Obtain DEP review and concurrence of an Explanation of Significant Differences, a Superfund Reuse Assessment and a five-year review Work with DEP and landowners to complete and implement institutional controls Finalize PRP's Operation and Maintenance Plan, complete Remedial Action 	Norwood PCB site: <ul style="list-style-type: none"> Work with property owner and developers to ensure work is conducted in a manner that maintains the protectiveness of the remedy <i>ongoing</i>	
	Nyanza site: <ul style="list-style-type: none"> Evaluate options to address groundwater (OU2), propose ROD Amendment, if necessary Continue Remedial Investigations/Feasibility Study on Sudbury River (OU4) 		
	PSC Resources site: <ul style="list-style-type: none"> Complete five-year review of remedy with DEP input 		
	Plymouth Harbor site: <ul style="list-style-type: none"> Release complete Reuse Assessment, work with landowner if redevelopment proposals are received 		
	ReSolve site: <ul style="list-style-type: none"> Continue oversight of PRP operation and maintenance and monitoring program 		
	Rose Disposal Pit site: <ul style="list-style-type: none"> Work with DEP and PRP on institutional controls issues 		

Goal 3: Manage Wastes and Clean Up Waste Sites

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
	Silresim site: <ul style="list-style-type: none"> Continue operation of groundwater remedy Complete consolidation of off-property soils Begin design work on site cap 	Silresim site: <ul style="list-style-type: none"> Work with EPA to develop an acceptable long-term solution <i>ongoing</i>	
	Shpack site: <ul style="list-style-type: none"> Begin negotiations with PRPs for Remedial Design/Remedial Action 	Shpack site: <ul style="list-style-type: none"> Work with EPA and the PRPs to develop an acceptable remedial solution <i>ongoing</i>	
	Starmet site: <ul style="list-style-type: none"> Continue oversight of PRP Remedial Investigation/Feasibility Study Coordinate with DEP and community on DEP-led drum removal. 	Starmet site: <ul style="list-style-type: none"> Complete the agreement with the Army and implement drum removal <i>Completed agreement; removal is ongoing</i>	
	Sullivan's Ledge site: <ul style="list-style-type: none"> Continue cleanup using innovative technology (UV Oxidation) 		
	Sutton Brook Disposal Area site: <ul style="list-style-type: none"> Continue oversight of PRP Remedial Investigation/Feasibility Study 		
	Wells G&H site: <ul style="list-style-type: none"> Conduct Feasibility Study (in conjunction with Industriplex site) for Operable Unit 3, issue proposed plan and Record of Decision for cleanup (alternate EPA target) 		
	W. R. Grace site: <ul style="list-style-type: none"> Complete Remedial Investigation/Feasibility study, issue proposed plan and Record of Decision for cleanup. Obtain DEP review and concurrence on ROD 		
		<ul style="list-style-type: none"> Continue work with EPA at numerous other sites 	

Goal 3: Manage Wastes and Clean Up Waste Sites

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
		<i>Implemented EPA's Cooperative Agreement at Charles George; evaluated 5-year site reviews at Nyanza, Rose Disposal Site, Wells G&H, Hocomonco Pond, and WR Grace; evaluated Reuse Assessment at Cannons Engineering (Plymouth)</i>	
Federal Facilities	Army Materials Technical Laboratory <ul style="list-style-type: none"> Work with DEP to obtain concurrence on the Charles River Operable Unit Record of Decision 		
	Fort Devens: <ul style="list-style-type: none"> Work to obtain DEP review and concurrence of a Record of Decision Work with DEP to ensure that the Army completes PA/SI work at the Grant Road Housing Area Work with DEP to resolve groundwater and capping issues related to Shepley's Hill Landfill 		
	Hanscom Air Force Base: <ul style="list-style-type: none"> Obtain DEP review and concurrence of a Record of Decision Continue cleanup using innovative technology (Bioremediation/Oxidation) 		
		Naval Weapons Industrial Reserve Plant: <ul style="list-style-type: none"> Work with the Navy on the early Covenant Deferral Request <i>Minor discussion occurred</i> <ul style="list-style-type: none"> Continue work with EPA and DoD at numerous other sites Ongoing <ul style="list-style-type: none"> Develop and submit Defense/State Memorandum of Agreement Cooperative 	

Goal 3: Manage Wastes and Clean Up Waste Sites

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
		Agreement for new funding for oversight activities <i>Completed</i>	
	South Weymouth Naval Air Station: <ul style="list-style-type: none"> Assuming negotiations get back on track during FY 06, EPA will work with DEP to secure the Governor's concurrence on the Covenant Deferral Request (CDR) package. Concurrent activities under the MA MEPA certificate on the development side include the smart growth effort that EPA supports EPA will work with DEP to ensure that the Navy restarts work that had been slowed by the previous negotiation effort Work to obtain DEP review and concurrence of one Record of Decision 	South Weymouth Naval Air Station: <ul style="list-style-type: none"> Complete agreements necessary for early transfer of and transfer/privatization of cleanup activities <i>Worked on the CDR but the Navy and Tri-Town are still negotiating its terms</i>	
		Continue work with EPA at numerous other federal facilities <i>Ongoing</i>	
Multi-Site Cooperative Agreement	<ul style="list-style-type: none"> Work with DEP through Superfund Pre-Remedial Cooperative Agreement (V98116401) 	<ul style="list-style-type: none"> Make recommendations regarding Eligible Response Site Status for sites on CERCLIS <i>Ongoing</i> <ul style="list-style-type: none"> Evaluate sites for listing on CERCLIS <i>Completed 4 evaluations</i> <ul style="list-style-type: none"> Evaluate sites for recommendation to NPL <i>Completed 1 evaluation</i> <ul style="list-style-type: none"> Evaluate sites on CERCLIS for federal vs. state lead, and for removal from CERCLIS <i>Evaluated 8 sites</i> <ul style="list-style-type: none"> Work with EPA on removal actions for time-critical projects 	

Goal 3: Manage Wastes and Clean Up Waste Sites

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
		<i>No time-critical removals occurred</i>	
Massachusetts Military Reservation: Perchlorate in Groundwater	<p>EPA continues with remedy selections and design/construction on the Superfund ground water plumes. One of the main issues on the Impact Area is the perchlorate level to be used to guide the investigation and cleanup.</p> <p>EPA supports MA DEP efforts at promulgating a perchlorate standard.</p>	<p>Conduct the following work in connection with the investigation and remediation being conducted at the MMR by the Army and managed by the Army Environmental Center (AEC)</p> <ul style="list-style-type: none"> Establish Perchlorate MCL for drinking water <p><i>The regulations establishing perchlorate standards were postponed pending completion of the National Academy of Sciences evaluation. Anticipate promulgation in 2006.</i></p> <ul style="list-style-type: none"> Review and update Massachusetts standards as needed when EPA standards are established 2006-08 <p><i>ongoing</i></p> <ul style="list-style-type: none"> Develop regulatory guidance, standards, and policies relating to management of perchlorate <p><i>ongoing</i></p> <ul style="list-style-type: none"> Reviews and provide comments and recommendations on documents or data submitted to DEP <p><i>ongoing</i></p> <ul style="list-style-type: none"> Identify, evaluate, and explain MCP requirements related to response actions <p><i>ongoing</i></p> <ul style="list-style-type: none"> Execute site visits and participate in activities subject to public involvement requirements, including participation in Technical Review Committee (i.e., IART) <p><i>ongoing</i></p>	<ul style="list-style-type: none"> Issue MCP regulation revisions package and promulgate regulations 2004/2005 <p><i>The regulations establishing perchlorate standards were delayed pending completion of the National Academy of Sciences evaluation. Anticipate promulgation in 2006.</i></p>
Massachusetts Military Reservation: Impact Area Groundwater Study (IAGS)	EPA continues with investigations, remedy selections and design/construction on the Impact Area ground water plumes and source areas.	Conduct the following work in connection with the investigation and remediation being conducted at the MMR by the Army and managed by the Army Environmental Center (AEC)	<ul style="list-style-type: none"> Issue MCP regulation revisions package and promulgate regulations 2004/2005

Goal 3: Manage Wastes and Clean Up Waste Sites

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
	Work with DEP to obtain concurrence on the Demo 1 groundwater cleanup decision	<ul style="list-style-type: none"> Develop regulatory guidance, standards, and policies relating to management of Impact Area-related hazardous materials (e.g., HMX, RDX) that do not currently have state or federal drinking water or cleanup standards <p><i>Draft regulations were released for public comment in the fall of 2004 but the package was delayed. Expect a revised draft to be reissued for comment in the spring of 2006</i></p> <ul style="list-style-type: none"> Execute technical reviews and provide comments and recommendations on documents or data submitted to DEP <p><i>ongoing</i></p> <ul style="list-style-type: none"> Identify, evaluate, and explain MCP requirements related to response actions <p><i>ongoing</i></p> <ul style="list-style-type: none"> Execute site visits and participate in activities subject to public involvement requirements, including participation in Technical Review <p><i>ongoing</i></p> <ul style="list-style-type: none"> Prepare and administer related agreements including reimbursement of costs associated with obtaining and analyzing split samples <p><i>ongoing</i></p> <ul style="list-style-type: none"> Review and inspect operations and maintenance of remedial response systems <p><i>ongoing</i></p> <ul style="list-style-type: none"> Attend staff meetings and conferences in support of the IAGS program <p><i>ongoing</i></p>	
	Continue cleanup using innovative technology (Recirculation wells)	<ul style="list-style-type: none"> Provide regulatory oversight in close coordination with EPA (state serves as a concurring agency) in support of the MMR 	

Goal 3: Manage Wastes and Clean Up Waste Sites

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
		Installation Restoration Program (IRP) managed by the Air Force Center for Environmental Excellence <i>ongoing</i>	
Leaking Underground Storage Tanks (LUST)		<ul style="list-style-type: none"> Complete Winton's Food & Fuel (Palmer) Pay-for-Performance remedial project <i>ongoing</i> Implement LUST Cooperative Agreement Work Plan <i>completed</i> 	
Participate with the Association of State and Territorial Solid Waste Management Officials (ASTSWMO)		<ul style="list-style-type: none"> Serve as chair of the State/EPA Superfund Task Force Working with EPA and states on issues related to Superfund Serve as chair of the Sediments Task Force working with EPA and states on issues related to evaluating and remediating contaminated sediments Serve on the State Response and Brownfields Programs Operations Task Force working with EPA and the states on issues related primarily to Brownfields programs and implementing the new Brownfields Law Serve on the Federal Facilities Training and Technology Transfer (T3) Focus Group tasked with improving partnership between state and federal agencies and producing issue papers to promote state interests on issues affecting environmental restoration at federal facilities Serve on the Federal Facilities DSMOA Task Force working with DoD and the states on issues related to federal facilities <i>All actions are ongoing</i>	

Goal 3: Manage Wastes and Clean Up Waste Sites

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
Participate with the New England Waste Management Officials Association (NEWMOA)		<ul style="list-style-type: none"> Continue to work with EPA and the other New England states on issues common to the region, including brownfields, institutional controls, and improving the quality of site characterization <i>ongoing</i>	
Assist in Enhancing Homeland Security Participate in Planning, Preparedness and Response with Other State and Federal Agencies		<ul style="list-style-type: none"> Interface and coordinate planning and preparedness on Homeland Security matters with the US EPA, the Region I Regional Response Team (RRT), the US Department of Homeland Security, the Massachusetts National Guard Civilian Support Team (CST), the US Coast Guard (Providence and Boston), MEMA, the Massachusetts Department of Fire Services and its District Hazardous Material Response Teams, and other appropriate federal, military, state, and local authorities Provide field and technical support during Homeland Security incidents focusing on identifying and protecting environmental receptors and managing decontamination and other waste materials <i>All actions are ongoing</i>	
Facilitate Restoration and Redevelopment of Brownfields Properties Coordinate, facilitate, provide technical assistance and on-site coordination for Brownfields Redevelopment	Provide new grants to: Attleboro Berkshire Regional Planning Commission Boston Franklin Regional Council of Governments Montachusett Regional Planning Commission Norfolk County Pioneer Valley Regional Planning Commission Boston Redevelopment Authority	<ul style="list-style-type: none"> Promote and assist in the use of the Special Project Designation (SPD), a tool that provides increased flexibility on cleanup deadlines for certain types of projects Work with EOEA to implement the Environmental Justice Policy Hold bi-monthly meetings with regional coordinators Generate 12 monthly reports for the Commissioner 	<ul style="list-style-type: none"> Implement Urban Area Compliance Assurance <i>WRO threatened to issue order on 13 sites and hire state contractors to perform the cleanups. All 13 respondents no MassDEP action was necessary. CRO issued on NORA that resulted in an</i>

Goal 3: Manage Wastes and Clean Up Waste Sites

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
	Brockton Greenfield Marlborough Mystic valley Development Commission New Bedford	<ul style="list-style-type: none"> • Provide technical outreach to project proponents on regulatory issues, and promote the use of financial and liability incentives • Lead monthly partner meetings with state and federal staff monthly • Continue to track DEP brownfields involvement using time codes and other tools • Provide letters of support to entities applying for EPA brownfields grant funding • Conduct four EPA funded brownfields site assessments using state contractors • Work with state partners toward developing an inventory of brownfields sites • Provide assistance to communities receiving cleanup grant funding through the EPA Cleanup Grant Program • Continue to provide assistance to communities that have received funding through the Brownfields Cleanup Revolving Loan Fund Program. • Provide support to the Office of Commonwealth Development and the Executive Office of Environmental Affairs on Brownfields Policy development and Transit-Oriented Development (TOD) discussions <p><i>All actions are ongoing</i></p>	<p><i>ACOP; cleanup work con</i></p> <ul style="list-style-type: none"> • Conduct state-funded investigations/risk reduction activities at EOEADesignated municipally owned site <p><i>Completed one PCB Phase II/risk assessment at the I River/City Pier, Davenport Str project</i></p> <ul style="list-style-type: none"> • Assist Deputy Commissioner in planning/implementing Brownfields Roundtable <p><i>Offered staff assistance but project not implemented</i></p>
		<ul style="list-style-type: none"> • Participate on the review panel for the Brownfields Redevelopment Access to Capital Program • Promote the redevelopment of priority lien sites • Conduct pre-permit meetings in regions for brownfields project proponents as needed • Organize and speak at public outreach forums 	<ul style="list-style-type: none"> • Target proactive outreach to 15 municipalities - <i>complete</i> • Assist the AGO in reviewing 15 Covenant Not to Sue applications – <i>complete review on 20 applications</i> • Implement up to 10

Goal 3: Manage Wastes and Clean Up Waste Sites

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
		<i>All actions are ongoing</i>	brownfields site assessr Implemented 5 assessments <ul style="list-style-type: none"> Work with state partner toward developing an inventory of brownfield Developed separate inven technical assistance sites
Implement Brownfields Cooperative Agreement	<ul style="list-style-type: none"> Provide DEP with \$1,368,049 in funding from the Brownfields Program through a Brownfields State Response Program Cooperative Agreement issued under the new Brownfields law, (CERCLA, Section 128(a)). Using this funding, MA DEP will: <ul style="list-style-type: none"> Develop program guidance to address: asbestos in soil, monitored natural attenuation, risk assessment short forms for contamination. 	<ul style="list-style-type: none"> Enhance the state's oversight and enforcement capabilities by implementing the eGov Project, implementing procedures to prioritize auditing and enforcement; reviewing LSP performance records, reviewing site audits, implement plans to address the "Non-responders" Enhance public record of sites, as necessary, to ensure it meets requirements for continued funding Perform Site Manager role for municipalities that need assistance implementing Brownfields Revolving Fund Loan and Brownfields Cleanup Grant projects All actions are ongoing	<ul style="list-style-type: none"> Implement 3 – 4 Brownfields Site Asses (expected to include sit Amesbury, Whitman, a Ashland Implemented 8 brownfields site assessments <ul style="list-style-type: none"> Begin surveying and inventorying Massachu brownfields sites Developed separate inventory of technic assistance sites
Superfund Pre-remedial	<ul style="list-style-type: none"> Work with DEP through Superfund Pre-Remedial Cooperative Agreement (V98116401) that also includes Brownfield Site Assessment activities (the BSA portion of this cooperative agreement is a continuation of the activities funded under Superfund - prior to the new Brownfields authorization) Assist DEP in reviewing Eligible 		

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Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
	Response Site List and providing feedback on EPA's proposed sites to be excluded from the enforcement bar provision in the new Brownfields legislation		

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BWP FFY 05 PLANNED AND ACTUAL INSPECTIONS							
	Multi Media (MM)	Single Media (SM)	Protocol C	Presence	Assessment	TOTAL PLANNED	ACTUAL
TOTALFFYO5 INSPECTIONS BY INSPECTION TYPE (excluding Solid Waste and Asbestos)							
Actual	596	301	89	244	443	1486	
Planned	439	200	87	358	380	1464	
INSPECTIONS BY INITIATIVE TYPE (note a particular visit to a facility may be counted in more than one initiative type c and include additional types of media specific inspections beyond MM, SM, Protocol C, Presence and Assessment)							
REASON FOR TARGETTING							
AIR SOURCES							
Air Operating Permit	67	44		11		122	75
ERP Dry Cleaner Major Equivalent – see note[1]							
Report Review Results: Air Sources	22	4				26	28
RESM89 Monors	45	13				59	73
Air Permit Related		59				59	59
Stack Test Observations		23		105		128	116
Stage II	3			30		33	106
School bus idling				18		18	40

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BWP FFY 05 PLANNED AND ACTUAL INSPECTIONS							
	Multi Media (MM)	Single Media (SM)	Protocol C	Presence	Assessment	TOTAL PLANN ED	ACTUAL
ERP Report Review Results				27		27	8
BAD ACTORS	6	5		9		20	27
UNIDENTIFIED		5				5	Included in other air categories*
Inspection Station Audits					150	150	150
Minor Sources							347
Total Estimated Air Inspections	144	153		200	150	647	872
ASBESTOSs		360			50	410	529*
HAZARDOUS WASTE							
Offsite Recyclers (ABC)	26	1				27	18
Large Quantity Hazardous Waste Generators	92	14				106	143
ERP Dry Cleaner LQG Equivalent – see note above							
HW, Acting Out of Status/Temp ID		6	6	5		17	12
Report Review Results: HW Sources	5					5	Included above
Transfer Storage and Disposal Facilities	13	2				15	13

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BWP FFY 05 PLANNED AND ACTUAL INSPECTIONS							
	Multi Media (MM)	Single Media (SM)	Protocol C	Presence	Assessment	TOTAL PLANNED	ACTUAL
Soils Processors		7				7	4
Marinas		20				20	21
Tank Removal Companies		10				10	5
Small Quantity Generators							132
Total Estimated Hazardous Waste Inspections (including Waste Oil)	136	60	6	5		207	768
SOLID WASTE INSPECTIONS		591				591	713 *
INDUSTRIAL WW							
IWW NPDES Majors, NPDES Minors, groundwater dischargers in drinking water protection and Listed Basins	21	21		17		59	46
Indirect Dischargers Identified as problems by IPP POTWs							20
Significant Industrial Users in NON IPP POTWS or identified as problems by POTWs	2	7				9	Included above
IWW Illegal Surface and Groundwater discharges to Drinking water protection areas					200	200	176

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BWP FFY 05 PLANNED AND ACTUAL INSPECTIONS							
	Multi Media (MM)	Single Media (SM)	Protocol C	Presence	Assessment	TOTAL PLANNED	ACTUAL
IWW Permit Related		11				11	Included above
Report Review Results IWW Sources	5	2		4	25	36	Included above*
Total Estimated IWW Inspections	28	41		21	225	315	354
OTHER TARGETS							
TURA	3					3	132
Auto Crushers	11					11	2
Boat Builders	8					8	7
Auto Dealerships				25	10	35	34
Plastics Manufacturers'	10					10	12
Auto Body Shops			20			20	10
Furniture Strippers				10		10	11
Adopt-a-town/unsewered areas	20		50			70	63
Selected Basins (Including Blackstone)	5	2	7	3		17	17
WWTPs/WTPs			20			20	20
BAD ACTORS	7	5	5			17	27
Outside the System and Closure	5		5	2	5	17	40
COMPLAINTS	41	47	10	72		170	122

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BWP FFY 05 PLANNED AND ACTUAL INSPECTIONS							
	Multi Media (MM)	Single Media (SM)	Protocol C	Presence	Assessment	TOTAL PLANNED	ACTUAL
UNIDENTIFIED	22	33	10	20		85	Included in the difference between planned and actual mm and sm inspections
Total Other Targets	132	87	127	132	15	493	
TOTALS ALL TARGETS	440	1292	133	358	440	2663	

*not included in total Multi Media, Single Media, Protocol C, Presence or Assessment Inspections

[1] EPA and DEP are currently developing a proposal that would allow EPA OECA and Region I to recognize DEP's work in the ERP dry cleaner sector. The ERP dry leaner sector work contributes toward DEP's hazardous waste and air quality compliance evaluation commitments under the 2005 PPA. The program uses strategic compliance assistance, mandatory facility self-certification, agency inspections and enforcement, and a performance-based measurement system to assure compliance with multimedia environmental requirements.. This approach will directly relate DEP's multi-media, innovative program work to meeting federal single medium program activity commitments.

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Performed Compliance Inspections by Type

Enforcement Sensitive

Region / Program	MISC DW estimate	Sanitary survey (EPA*)	UIC estimate	NPDES Major (EPA*)	NPDES Minor (EPA*)	MISC WPC estimate	Ground water **	Lg Sys Title 5 estimate	Wetlands estimate	Ch. 91 estimate	WMA reviews ***	Other discre- tionary	Row Totals:
NERO / BRP	100	34	10	11	6	15	8	0	270	0	27	34	515
SERO / BRP	165	57	0	5	5	75	51	10	155	10	39	8	580
CERO / BRP	70	52	0	13	6	30	21	15	300	0	8	35	550
WERO / BRP	110	21	15	3	0	35	0	0	260	3	14	94	555
Boston / BRP	0	0	0	0	0	0	0	0	0	64	36		100
Planned Totals:	445	164	25	32	17	155	80	25	985	77	124	171	2300

Actual Totals 340 164 47 65 31 176 156 38 1140 88 103 0 2348

Estimates were originally based on previous year's experience.

The "OTHER" category builds in regional discretion. For example, a region may perform additional NPDES inspections.

* PPA and work plan commitments. These inspections must be completed on time to fulfill DEP obligations.

** Work plan commitment to inspect year 2 basins

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*** WMA 5-year reviews still under negotiation with DEP regions. Once final, becomes a firm commitment

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Trends for Inspections and Penalties

DEP uses a variety of tools to identify noncompliance with environmental regulations. These include investigations by DEP's Environmental Strike Force, inspections, reviews of reports and monitoring data, audits, and follow-up to citizen complaints. The table below shows inspections and penalties for each of the past four fiscal years.

Type of Inspection	2002 (10/1/01 to 9/30/02) Full Year	2003 (10/1/02 to 9/30/03) Full Year	2004 (10/1/03 to 9/30/04) Full Year	2005 (10/1/04 to 9/30/05) Full Year
Environmental Strike Force Investigations (Cross-media inspections)	387	270	291	291
Multimedia inspections of industrial facilities (BWP FIRST)	730	584	730	701
Asbestos inspections (BWP ASB)	938	810	771	496
Solid Waste facility inspections* (BWP SW)	*	488	509	509
Other single media inspections of industrial facilities* (BWP SP MED)	984	177	274	200
Waste site inspections	1210	1470	1450	1446
Resource protection inspections	2199	1986	2530	2548
Resource protection report reviews	64,576	67,012	74,358	74,353
Certified laboratory inspections	37	19**	59	59
Type of Result				
Assessed Penalties and Referrals				
Penalties to waste management and industrial facilities -BWP (HLE Assessed Admin and Pan/Expan)	\$2,100,206	\$1,567,136	\$2,942,320	\$1,995,899

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Penalties to parties responsible for waste sites –BWSC	\$523,588	\$2,020,413	\$1,254,288	\$1,139,100
Penalties to protect natural resources - BRP	\$595,252	\$381,063	\$1,535,400	\$1,285,450
Referrals to the Massachusetts Attorney General (MAAG)	12	25	40	30
MAAG settled cases, civil and criminal	23	19	20	29
MAAG penalties, civil and criminal (DEP Summary: Admin;Pan/Expan;STIPs/SUSP)	\$2,133,300	\$6,993,125	\$1,456,250	\$4,551,738
Referrals to US EPA and others (municipalities, district attorneys)	12	0	1	1
Waste Site Cleanup cost recovery revenues ****	\$1,356,329 (7/1/01-6/30/02)	\$561,241 (7/1/02-6/30/03)	\$1,233,625 (7/1/03-6/30/04)	\$1,038,929 (7/1/04-6/30/05)

* Solid waste facility inspections became a separate reporting category in FFY2003

**This number reflects a staffing shortage at WES during the first half of calendar year 2003. In July 2003 a staff member received certification to conduct laboratory inspections.

***This number is unusually high because of a single \$5,900,000 penalty assessed to the Waters Corp. in July 2003.

**** These numbers are provided for the state fiscal year which runs from July 1st to June 30th.

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